Turn up your viewing experience

with Crystal Clear

Here is an LCD TV that not only enhances the décor of your home with its European styling and slim design, but also provides a great audio-visual experience with Crystal Clear and Virtual Dolby Surround.

Better quality images that reveal more detail
- High definition LCD WXGA display, resolution 1280 x 768p
- HD ready for the highest quality display of HDTV signals
- Crystal Clear improves picture depth
- Active Control optimises picture quality whatever the source

Superb sound reproduction
- Virtual Dolby Surround for a cinema-like audio experience

Stylish design
- Compact design

Multi-purpose convenience
- PC input lets you also use your TV as a PC monitor
- Smart Picture provides personalised image settings

Leading interface for digital quality audio/video
- DVI-I provides the best picture and flexible connectivity

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Technical specifications

Picture / Display
- Aspect ratio: Widescreen
- Brightness: 450 cd/m²
- Contrast ratio (typical): 500:1
- Diagonal screen size: 23 inch / 58 cm
- Display screen type: LCD WXGA Active Matrix TFT
- Picture enhancement: Progressive scan, Sharpness adjustment, Active Control, Colour temperature adjustment, Crystal Clear
- Screen enhancement: Anti reflection coated screen
- Viewing Angle (H / V): 170 / 170 degree
- Panel resolution: 1280 x 768p
- Response time (typical): 16 ms

Supported Display Resolution

Resolution	Refresh rate
• Computer formats	
1280 x 768	60Hz
640 x 480	60, 67, 72, 75Hz
720 x 400	70Hz
800 x 600	56, 60, 72, 75Hz
1024 x 768	60, 70, 75Hz
832 x 624	75Hz
• Video formats	
1920 x 1080i	2Fh
1280 x 720p	3Fh
720 x 576p	2Fh
720 x 576i	1Fh
640 x 480p	2Fh
640 x 480i	1Fh

Sound
- Sound enhancement: Dynamic bass enhancement
- Sound system: Nicam stereo, Virtual dolby surround, Mono
- Equaliser: 5-bands
- Output power (RMS): 2 x 5W

Convenience
- Ease of installation: Automatic Channel Install (ACI), Automatic Tuning System (ATS), Fine tuning, PLL digital tuning, Plug & Play, Auto programme naming, Program name, Sorting, Auto store
- Ease of Use: Auto volume leveller (AVL), Program list, Smart picture control, Smart sound control, Menu control, On screen display
- Remote control type: RCFE05ZAU00
- Teletext: 10 page Smart Text
- Screen format adjustments: 4:3, Subtitle Zoom, Super Zoom, Movie expand 14:9, Movie expand 16:9, Widescreen, Full screen
- Clock: Sleep timer
- Picture in Picture: Twin page text
- Remote control: TV
- VESA Mount: 100 x 100 mm

Tuner / Reception / Transmission
- Tuner bands: Hyper band, S channel, UHF, VHF
- TV system: PAL, PAL B/G, PAL D/K, PAL I, SECAM, SECAM B/G, SECAM D/K, SECAM L/L'
- Video playback: NTSC, PAL, SECAM
- Aerial input: 75 Ohm coaxial (IEC75)
- Tuner display: PLL
- Number of preset channels: 100

Connectivity
- Ext 1 Scart: Audio L/R, CVBS in / out, RGB
- Other connections: Antenna IEC75, PC audio in, DVI-I
- Front / Side connections: Audio in, Headphone out, CVBS in, S video in
- Number of scarts: 1

Power
- Power consumption: 84 W
- Standby power consumption: < 1W
- Ambient temperature: +5°C/+45°C
- Power supply: AC 90-240

Dimensions
- Product weight: 10.2 kg
- Set dimensions (W x H x D): 704 x 373 x 92 mm
- Dimensions (with base) (W x H x D): 704 x 414 x 217 mm
- Box dimensions (W x H x D): 780 x 551 x 210 mm
- Set Weight: 10.2 kg
- Weight incl. packaging: 12.85 kg
- Colour cabinet: Silver Frost

Accessories
- Included accessories: Table top stand, Power cord, Quick start guide, Registration card, Remote control, User manual
- Cables: DVI-I to YPbPr cable

stereo system					transmission system					
2CS	NICAM	2CS	NICAM	NICAM	PAL	PAL	PAL	SECAM	SECAM	SECAM
DK	DK	BG	I	LL'	BG	DK	I	BG	DK	LL'
o	o	o	o	o	o	o	o	o	o	o

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23" LCD HD ready flat TV Crystal Clear

23PF4310/01

Product highlights

HD Ready
Enjoy the exceptional picture quality of a true High Definition TV signal and be fully prepared for HD sources like HDTV broadcast, Blu-ray DVD or HDVD. HD ready is a protected label that offers picture quality beyond that of progressive scan. It conforms to strict standards laid out by EICTA to offer an HD screen that displays the benefits of resolution and picture quality of a High Definition TV signal. It has a universal connection for both analogue YPbPr and uncompressed Digital connection of DVI or HDMI, supporting HDCP. It can display 720p, and 1080i signals at 50 and 60Hz.

Crystal Clear
Combining picture enhancements like Contrast Plus and colour improvement, Crystal Clear improves picture depth.

Active Control
Active Control ensures that noise and sharpness improvements are continuously made at a rate of 60 times per second. By continually adjusting picture settings over 3,000 times per minute, Active Control Plus ensures that the viewing experience is optimised.

Virtual dolby surround
Incredible Surround™ is an audio technology from Philips that dramatically magnifies the sound field to immerse you in the audio. Using state-of-the-art electronic phase shifting, Incredible Surround™ mixes sounds from left and right in such a way that it expands the virtual distance between the two speakers. This wider spread greatly enhances the stereo effect and creates a more natural sound dimension. Incredible Surround™ allows you to experience total surround with greater depth and width of sound, without the use of additional speakers.

PC input
With PC input you can connect your TV to a computer and use the TV as a PC monitor.

Smart Picture
Smart Picture provides the optimum picture settings for colour, brightness, saturation, contrast, sharpness, etc. to enhance your overall viewing experience at all times.

DVI-I input
A DVI-I input connects the non-compressed high-bandwidth digital RGB signal from source to screen. By eliminating the conversion of the digital signals to analogue, it delivers an unblemished and noise-free image, that is clear and flicker-free. The DVI input supports HDCP copy protection that allows viewing of copy protected programs from Digital Set-top boxes, DVD players and HD recorders. DVI-I is future proof as it can be be connected to all HDMI devices (a converter cable is required). The DVI-I input also supports analog PC-VGA signals.